

CLAIMS

What is claimed is:

1. A recording and/or reproducing apparatus to record and/or reproduce data with respect to an information storage medium having disc information including first disc information and second disc information, the apparatus comprising:

an optical pickup to transfer data with respect to the information storage medium; and
a controller which controls the optical pickup to detect the first and second disc information, to determine which of the first and second disc information corresponds to a disc information usable by the apparatus, and to control the optical pickup to transfer the data with respect to the information storage medium according to the determined one of the first and second disc information.

2. The recording and/or reproducing apparatus of claim 1, wherein the first and second disc information are different with respect to one of a disc version number and recording-related information.

3. The recording and/or reproducing apparatus of claim 2, wherein the difference in the recording-related information is with respect to one of a recording speed and a recording waveform.

4. The recording and/or reproducing apparatus of claim 3, wherein the first and second disc information are the same with respect to the disc version number.

5. The recording and/or reproducing apparatus of claim 3, wherein:
the first disc information includes first byte information on a number of bytes to be reproduced by the drive to read the recording-related information of the first disc information,
the second disc information includes second byte on a number of bytes to be reproduced by the drive to read the recording-related information of the second disc information,
and
the first and second byte information indicate different numbers of bytes.

6. The recording and/or reproducing apparatus of claim 1, wherein the first disc information conveys a first disc version number and the second disc information conveys a

second disc version number, and the apparatus is usable to transfer the data according to the first disc version number but is not usable to transfer the data according to the second disc version number.

7. A method of transferring data with respect to an information storage medium according to detected disc information read from the information storage medium, comprising:
detecting from the information storage medium first and second disc information, the first disc information conveying different information;
determining which of the first and second disc information is usable by a drive which is to transfer the data with respect to the information storage medium; and
transferring the data between the drive and the information storage medium according to the determined one of the first and second disc information.

8. The method of claim 7, wherein the first disc information conveys a first disc version number and the second disc information conveys a second disc version number, and the drive is usable to transfer the data according to the first disc version number but is not usable to transfer the data according to the second disc version number.

9. The method of claim 7, wherein the first disc information conveys a first recording-related information and the second disc information conveys a second recording-related information, and the drive is usable to record the data according to the first recording-related information but is not useable to record the data according to the second recording-related information.

10. The method of claim 7, wherein the first disc information indicates a first recording speed, and the second disc information indicates a second recording speed other than the first recording speed.

11. The method of claim 7, wherein the first disc information indicates a first recording waveform, and the second disc information indicates a second recording waveform other than the first recording waveform.

12. A computer readable medium encoded with instructions for a method of recording/reproducing data with respect to an information storage medium according to

detected disc information read from the information storage medium and interpreted by a computer, the method comprising:

detecting from the information storage medium first and second disc information, the first disc information conveying different information with respect to one of a disc version number and recording-related information;

determining which of the first and second disc information is usable by a drive which is to transfer data with respect to the information storage medium; and

transferring the data between the drive and the information storage medium according to the determined one of the first and second disc information.

13. The computer readable medium of claim 12, wherein the first disc information conveys a first disc version number and the second disc information conveys a second disc version number, and the drive is usable to transfer the data according to the first disc version number but is not usable according to transfer the data according the second disc version number.

14. The computer readable medium of claim 12, wherein the first disc information conveys a first recording-related information and the second disc information conveys a second recording-related information, and the drive is usable to record the data according to the first recording-related information but is not according to usable to record the data according to the second recording-related information.

15. The computer readable medium of claim 12, wherein the first disc information indicates a first recording speed, and the second disc information indicates a second recording speed other than the first recording speed.

16. The computer readable medium of claim 12, wherein the first disc information indicates a first recording waveform, and the second disc information indicates a second recording waveform other than the first recording waveform.